

Krushna Vyas

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SKILLS

Languages: JavaScript, TypeScript, Python, Flutter, Svelte, GraphQL, SQL/NoSQL

Technologies & Tools: AWS, EC2, DynamoDB, S3, MongoDB, Lambda, Athena, Azure, Firebase, Pterodactyl, Docker, Nginx, Vite, Webpack, Redis, Angular, ReactJS, NuxtJS, ThreeJS, Express

WORK EXPERIENCE

Tebex, London

Feb 2024 - Dec 2024

Payments Engineer

- Integrated major Indian UPI gateways into the Tebex checkout system, enabling support for apps like PhonePe, Paytm, and BHIM, and expanding payment options for Indian webstores and gaming platforms.
- Implemented bank-level UPI integrations to complement Google Pay and PayPal, significantly enhancing localized transaction flexibility.
- Improved user experience and boosted transaction volume through seamless UPI support tailored for Indian merchants.
- UPI, Payment Gateway Integration, Google Pay, PayPal, REST APIs, IndiaStack, Secure Checkout, Localization

Bytebridge Limited, Seattle

May 2020 – Oct 2024

Lead Developer

- Designed and deployed a full-stack Discord automation suite for onboarding, role synchronization, and secure access control using Discord's API and OAuth2 protocol, with support for multi-guild configurations.
- Built advanced alt-account detection leveraging IP heuristics, device fingerprinting, and middleware-based traffic throttling to prevent sybil attacks and abuse vectors.
- Engineered a RESTful backend with Node.js, Express, MongoDB, and Redis to manage authentication workflows, metadata services, and background bot orchestration.
- Developed a performant web frontend using Next.js and TailwindCSS with dynamic parallax effects and server-side rendering for role-based dashboards, account management, and visual logs.
- Integrated ExpoGL to deliver an interactive 3D analytics dashboard within the web interface, rendering Discord server graphs, activity heatmaps, and engagement clusters using WebGL shaders.
- Containerized the stack with Docker and deployed to AWS Fargate, provisioning secure environment variables via Secrets Manager, logging pipelines via CloudWatch, and persistent shared volumes via EFS.
- Established CI/CD pipelines via GitHub Actions with linting, test coverage reporting, and staging previews.
- Node.js, Express, MongoDB, Redis, Next.js, TailwindCSS, ExpoGL, Parallax.js, Docker, AWS Fargate, EFS, CloudWatch, Secrets Manager, GitHub Actions, Discord API, OAuth2

Fusion Network, Mumbai

Nov 2024 – Present

Full Stack Developer

- Engineered a modular frontend web platform and interactive dashboard to visualize real-time in-game player metrics and dynamic community leaderboards, leveraging React.js, TailwindCSS, and WebSockets for live updates.
- Architected and implemented a high-availability automation system, integrating:
 - A structured bug reporting and lifecycle status tracker with moderation hooks.
 - A suggestion engine featuring democratic voting, sentiment scoring, and admin resolution flows.
 - A multi-step staff recruitment pipeline with form parsing, application prioritization, and history logging.
 - An in-game trade orchestration layer supporting escrow validation and bilateral offers.
 - Deep user profiling with time-based activity breakdowns and behavior modeling.
 - OAuth2-based media account linking with cross-platform post tracking and alerts.
 - A real-time keyword-based sniper module with fuzzy-matching and push notification dispatch.
- Designed and deployed a scalable e-commerce web store facilitating purchase of in-game digital assets (cosmetics, consumables), with multi-tier payment integrations including PayPal, UPI, Stripe, Razorpay, Razor Gold, and banking cards via PCI-compliant gateways.
- Dockerized and deployed across auto-scaling containers on AWS ECS with integrated monitoring via CloudWatch, CI/CD via GitHub Actions, and persistent state storage on RDS and S3.
- React.js, Node.js, Express, MongoDB, PostgreSQL, Redis, TailwindCSS, WebSockets, Docker, AWS ECS, S3, CloudWatch, OAuth2, Stripe API, Razorpay API

EDUCATION

SVKM JV PAREKH INTERNATIONAL SCHOOL

June 2008 - March 2022

Primary and Secondary Education

Completed foundational coursework across core subjects including Mathematics, Science, English, Global Perspectives, French and Information Technology.

Allen Career Institute

May 2022 - March 2024

Higher Secondary Education (Class 11 & 12)

Focused on Physics, Chemistry, and Mathematics as part of the pre-engineering curriculum. Received intensive coaching for competitive engineering entrance exams such as JEE.

PROJECT WORK

- **Kernel-Mouse-Driver:** Low-level software development in C for a custom Linux kernel mouse driver managing RGB and DPI, demonstrating attention to detail.
- **Fitness-API (GoogleFit):** Back-end development and reverse engineering of health data APIs for Google Fit and Noise; strong grasp of computer science fundamentals.
- **BM Samay:** Full-stack software development lifecycle project; developed scalable front-end and real-time back-end infrastructure for a chess event platform.
- **WebDrop-Android:** Android application focused on device communication and clean UI/UX development, modeled on AirDrop with optimized local performance.
- **AI-Micro-Application:** Clean Android interface with efficient front-end workflows for communicating with AI Micro platform APIs.
- **StatsVLR-Android:** Mobile software for accessing Valorant esports data; responsive UI and thoughtful data presentation using structured development practices.
- **StatsVLR-Predictor:** Back-end predictive engine applying data science to Valorant match history; emphasizes database querying and statistical modeling.
- **License-Manager:** RESTful API development with Discord integration, secure license handling, and deployment pipelines; showcases communication between services.
- **Links-Manager:** Database-driven encrypted link manager; implements hierarchical data structures and secure software design.
- **ElRoyal-Tournaments:** Event coordination bot automating user registration and tournament logic; real-time back-end performance and user interaction.
- **JTC-Discord:** Granular voice channel control via Discord bot; automates lifecycle events with strong software development focus.
- **JTC-Dashboard:** Front-end and back-end system using modern web technologies to collaborate with the JTC-Discord bot for real-time configuration.
- **Utility-Extension:** Microsoft Edge extension enhancing content interaction across major platforms; written with attention to detail and performance-optimized code in JavaScript.

AWARDS AND CERTIFICATES

- **Foundations of Data Science and AI** Completed a comprehensive course covering data science, machine learning, deep learning, natural language processing, computer vision, and generative AI at AI Micro Degree Course.